

EUROPEAN PATENT OFFICE

Patent Abstracts of Japan

PUBLICATION NUMBER : 09137158

PUBLICATION DATE : 27-05-97

APPLICATION DATE : 15-11-95

APPLICATION NUMBER : 07296418

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INT.CL. : C09K 11/64 H01J 29/20

TITLE : FLUORESCENT FILM AND ITS PRODUCTION

ABSTRACT : PROBLEM TO BE SOLVED: To obtain a high-luminance fluorescent film by using a printing ink contg. a europium (II)-activated barium magnesium aluminate phosphor having a specified Blaine specific surface area in forming the film by a thick-film printing method.

SOLUTION: A europium (II)-activated barium magnesium aluminate phosphor having a Blaine specific surface area of 8,000-13,000cm²/g is produced by mixing specified amts. of a barium compd. (e.g. barium oxide), a europium compd. (e.g. europium oxide), a magnesium compd. (e.g. magnesium oxide), and an aluminum compd. (e.g. aluminum oxide) together with a flux and baking the resultant mixture in a reducing atmosphere. A printing ink contg. the phosphor is used for forming a fluorescent film on a substrate such as a glass plate by a thick-film printing method. The obtd. fluorescent film is useful as a reflective fluorescent film used esp. for a fluorescent display tube, etc.

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